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1 **1** **tg**gggtg**tg****tc**ctt**g****ct**ct**g**cca**ac**gttgattgttttc**at**gacattaatctacgtgc  
 1 Met Thr Leu Ile Tyr Val  
 61 **ct**tcaatatttacaatgg**tc**ccctcaatcacacggattgtactgg**tt**aacatt**ct**gtt**gg**  
 7 Pro Ser Ile Phe Thr Met Val Pro Ser Ile Thr Arg Ile Val Leu Val Asn Ile Leu Leu  
 121 **cg**acgttggttttgggagct**gc**agtccttccacgagacaacagaactgttt**gc**gggagtc  
 27 Ala Thr Leu Val Leu Gly Ala Ala Val Leu Pro Arg Asp Asn Arg Thr Val Cys Gly Ser  
 181 **aa**ctctgcacatgg**tg**gcacgactccggcgagataaacac**cg**gtactc**ct**gtacaggcag  
 47 Gln Leu Cys Thr Trp Trp His Asp Ser Gly Glu Ile Asn Thr Gly Thr Pro Val Gln Ala  
 241 **ga**aacgttgcacaatcccgaaagtactctgtccatgtgagcctggcagac**cg**taaccaat  
 67 Gly Asn Val Arg Gln Ser Arg Lys Tyr Ser Val His Val Ser Leu Ala Asp Arg Asn Gln  
 301 **tc**tacgactctttcgtatatgaatcgatacctaggaacggcaatggcagaatttattctc  
 87 Phe Tyr Asp Ser Phe Val Tyr Glu Ser Ile Pro Arg Asn Gly Asn Gly Arg Ile Tyr Ser  
 361 **cc**accgaccacctaacagcaatacattgaatagtagcattgacgac**gg**tatatcaatcg  
 107 Pro Thr Asp Pro Pro Asn Ser Asn Thr Leu Asn Ser Ser Ile Asp Asp Gly Ile Ser Ile  
 421 **aa**ccatctctcggcatcaacatggc**tt**gtgccagttcgaatatagacgagatgtcgaca  
 127 Glu Pro Ser Leu Gly Ile Asn Met Ala Trp Ser Gln Phe Glu Tyr Arg Arg Asp Val Asp  
 481 **tt**aagattactacaatcgatggctcaatattggatggcccttggacattgttattcggc  
 147 Ile Lys Ile Thr Thr Ile Asp Gly Ser Ile Leu Asp Gly Pro Leu Asp Ile Val Ile Arg  
 541 **cg**actctgttaagtactcagtcacaaagatgtgtgggtggtatcattattagagtc**cc**tt  
 167 Pro Thr Ser Val Lys Tyr Ser Val Lys Arg Cys Val Gly Gly Ile Ile Ile Arg Val Pro  
 601 **at**gatcccaatggtcgaaaattctctgttgagttaaagagtac**ct**ttacagttac**ct**ct  
 187 Tyr Asp Pro Asn Gly Arg Lys Phe Ser Val Glu Leu Lys Ser Asp Leu Tyr Ser Tyr Leu  
 661 **cc**gacggttcgcaatatgtgac**ct**ctggaggagcgtggttgg**tg**gagccaaaaaatg  
 207 Ser Asp Gly Ser Gln Tyr Val Thr Ser Gly Gly Ser Val Val Gly Val Glu Pro Lys Asn  
 721 **cc**ctggatgatttgcagcccttcttgcacgggatatggtt**ct**catatgacaccac  
 227 Ala Leu Val Ile Phe Ala Ser Pro Phe Leu Pro Arg Asp Met Val Pro His Met Thr Pro  
 781 **ac**gacaccagacaatgaagccgggccaatcaataatggggactggg**gt**tcaaagccta  
 247 His Asp Thr Gln Thr Met Lys Pro Gly Pro Ile Asn Asn Gly Asp Trp Gly Ser Lys Pro  
 841 **ta**ctctacttccgc**ct**ggcgatatactggatgaacgaggatac**ct**ctggt**aa**ccccggga  
 267 Ile Leu Tyr Phe Pro Pro Gly Val Tyr Trp Met Asn Glu Asp Thr Ser Gly Asn Pro Gly  
 901 **ag**ctcggtc**aa**atcatatg**cg**gctggatcccaatac**ct**actgggtccatctagcc**cc**ag  
 287 Lys Leu Gly Ser Asn His Met Arg Leu Asp Pro Asn Thr Tyr Trp Val His Leu Ala Pro  
 961 **ga**gcctatgtgaaaggagccattgag**ta**ttt**ca**cgaaagcaaaattt**ct**atgcaacggg**tc**  
 307 Gly Ala Tyr Val Lys Gly Ala Ile Glu Tyr Phe Thr Lys Gln Asn Phe Tyr Ala Thr Gly  
 1021 **at**ggcgttctctcaggtgagaactatgtttatcaggccaatgcagctgataactactatg  
 327 His Gly Val Leu Ser Gly Glu Asn Tyr Val Tyr Gln Ala Asn Ala Ala Asp Asn Tyr Tyr  
 1081 **cc**gtcaagagtgatggcacaagcttgagaatgtggtggcacaacaac**ct**tggaggcggtc  
 347 Ala Val Lys Ser Asp Gly Thr Ser Leu Arg Met Trp Trp His Asn Asn Leu Gly Gly Gly  
 1141 **aa**acatgggttttgc**at**ggggccaccattatgcaccg**cg**gtt**aa**tacgatggacttca  
 367 Gln Thr Trp Phe Cys Met Gly Pro Thr Ile Asn Ala Pro Pro Phe Asn Thr Met Asp Phe  
 1201 **ac**ggaaactctaata**tt**ccagccg**ga**ttagtactataagcaggttgg**cg**cttattttt  
 387 Asn Gly Asn Ser Asn Ile Ser Ser Arg Ile Ser Asp Tyr Lys Gln Val Gly Ala Tyr Phe  
 1261 **tc**caaacagacggaccggagatctacgaggacagtgtt**gt**ccatgacgttctt**gt**gc**at**g  
 407 Phe Gln Thr Asp Gly Pro Glu Ile Tyr Glu Asp Ser Val Val His Asp Val Phe Trp His  
 1321 **tt**aatgatgatgccatcaagacatattattccggagcttcaatttcagagcaaccatct

FIG. 1a

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427 Val Asn Asp Asp Ala Ile Lys Thr Tyr Tyr Ser Gly Ala Ser Ile Ser Arg Ala Thr Ile  
 1381 ggaagtgtcacaatgacccgatcatacagatgggctggacgtcacgaaatctcaccggaa  
 447 Trp Lys Cys His Asn Asp Pro Ile Ile Gln Met Gly Trp Thr Ser Arg Asn Leu Thr Gly  
 1441 tcagcattgataacctgcacgtcatccacacgagatatttcaaactctgaaacagtgggttc  
 467 Ile Ser Ile Asp Asn Leu His Val Ile His Thr Arg Tyr Phe Lys Ser Glu Thr Val Val  
 1501 cttcagcaatcattggagcgtctccattctacgcaagtgggaatgactgttgatcccagcg  
 487 Pro Ser Ala Ile Ile Gly Ala Ser Pro Phe Tyr Ala Ser Gly Met Thr Val Asp Pro Ser  
 1561 agtccatcagcatgaccatctctaactgtgtgtgtgaggggtctatgccccctcactgttcc  
 507 Glu Ser Ile Ser Met Thr Ile Ser Asn Val Val Cys Glu Gly Leu Cys Pro Ser Leu Phe  
 1621 gtatcactccgcttcagagctacaacaaccttgttgtcaagaacgtggcctttcccgatg  
 527 Arg Ile Thr Pro Leu Gln Ser Tyr Asn Asn Leu Val Val Lys Asn Val Ala Phe Pro Asp  
 1681 gactgcagacaaatccaatcggaataggagagagcattataccagcagcttccggctgta  
 547 Gly Leu Gln Thr Asn Pro Ile Gly Ile Gly Glu Ser Ile Ile Pro Ala Ala Ser Gly Cys  
 1741 caatggacttggaaatcacaaactggaccgtcaaaggacaaaaagtcaccatgcaaaact  
 567 Thr Met Asp Leu Glu Ile Thr Asn Trp Thr Val Lys Gly Gln Lys Val Thr Met Gln Asn  
 1801 ttcagtccgggtcacttggccagttcgatatcgatgggtcactggttcaatggtcca  
 587 Phe Gln Ser Gly Ser Leu Gly Gln Phe Asp Ile Asp Gly Ser Tyr Trp Gly Gln Trp Ser  
 1861 taaactaaagctattcccattcacctgagtattttcgtgggttcaatgagttcttgttac  
 607 Ile Asn \*  
 1921 tgatggggcccttgctagtggtaaaagtagagggactgtcctcgccgggcgccaaggaa  
 1981 gttcatgtcttctagttagaatagtatttgttcttctctctcgttaaaaaaaaaaaaaaaa  
 2041 aaaaaaaaaaaaaa 2052

FIG. 1b

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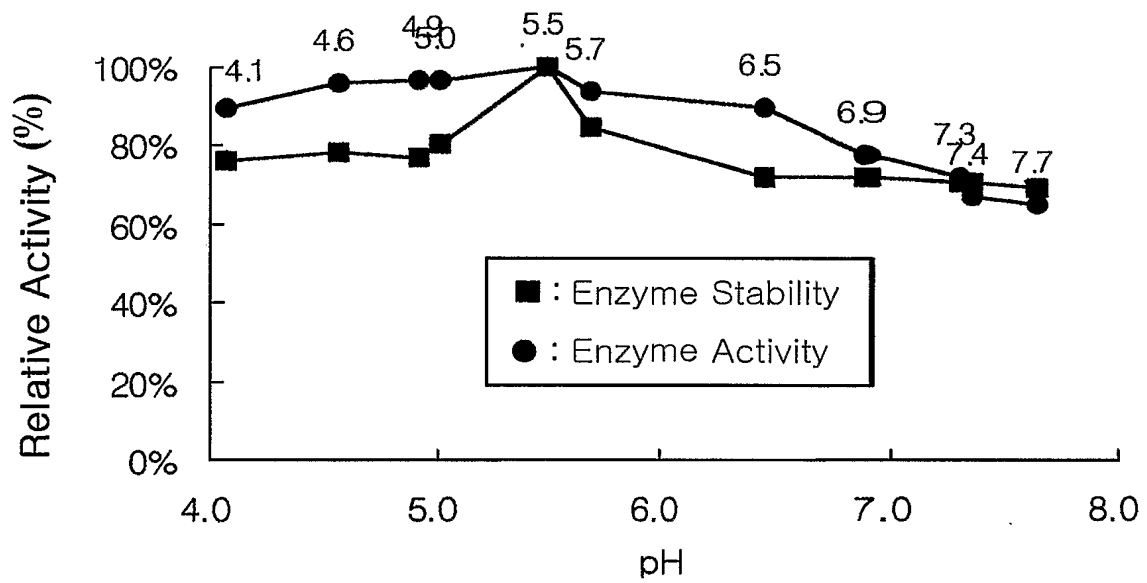


FIG. 2

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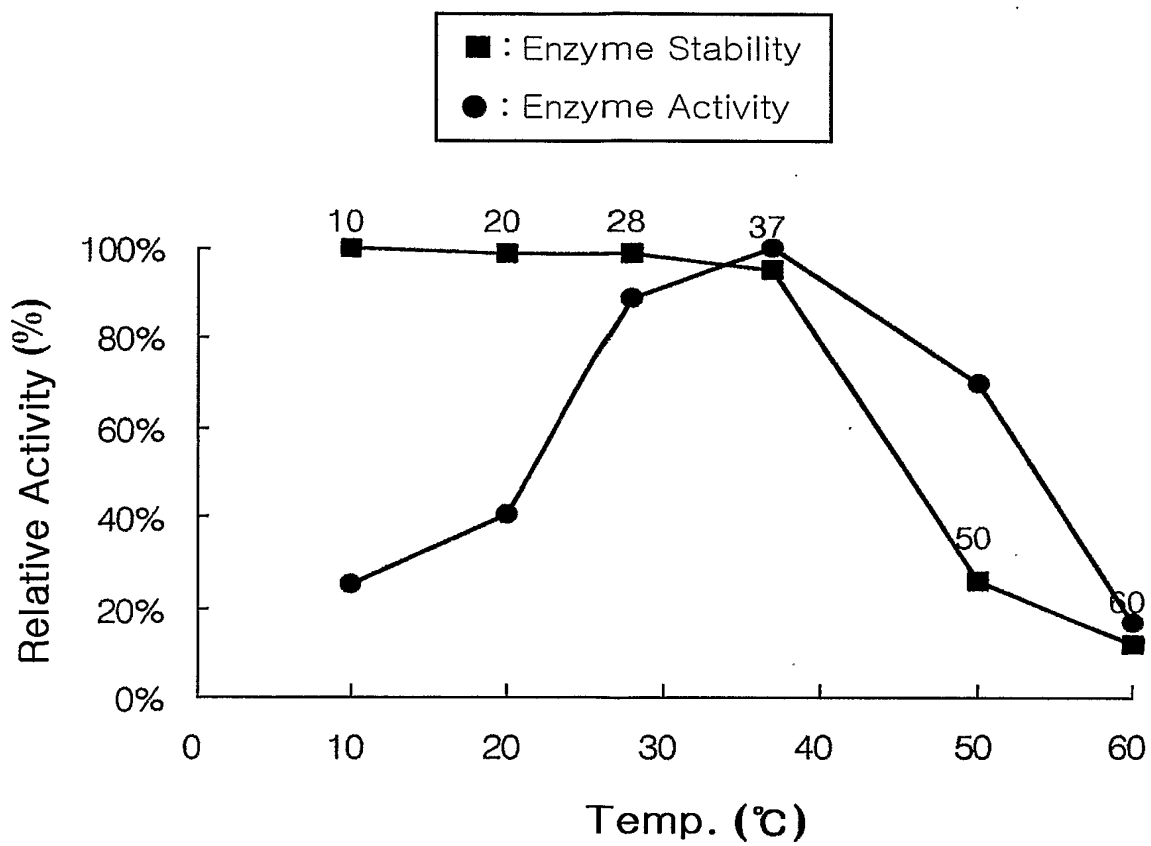


FIG. 3

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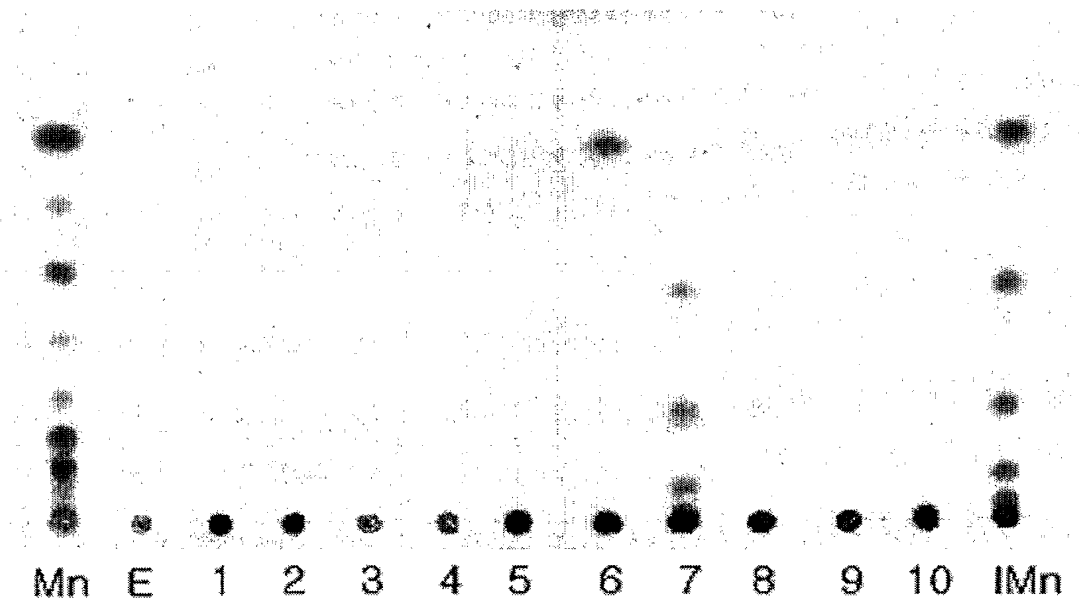


FIG. 4

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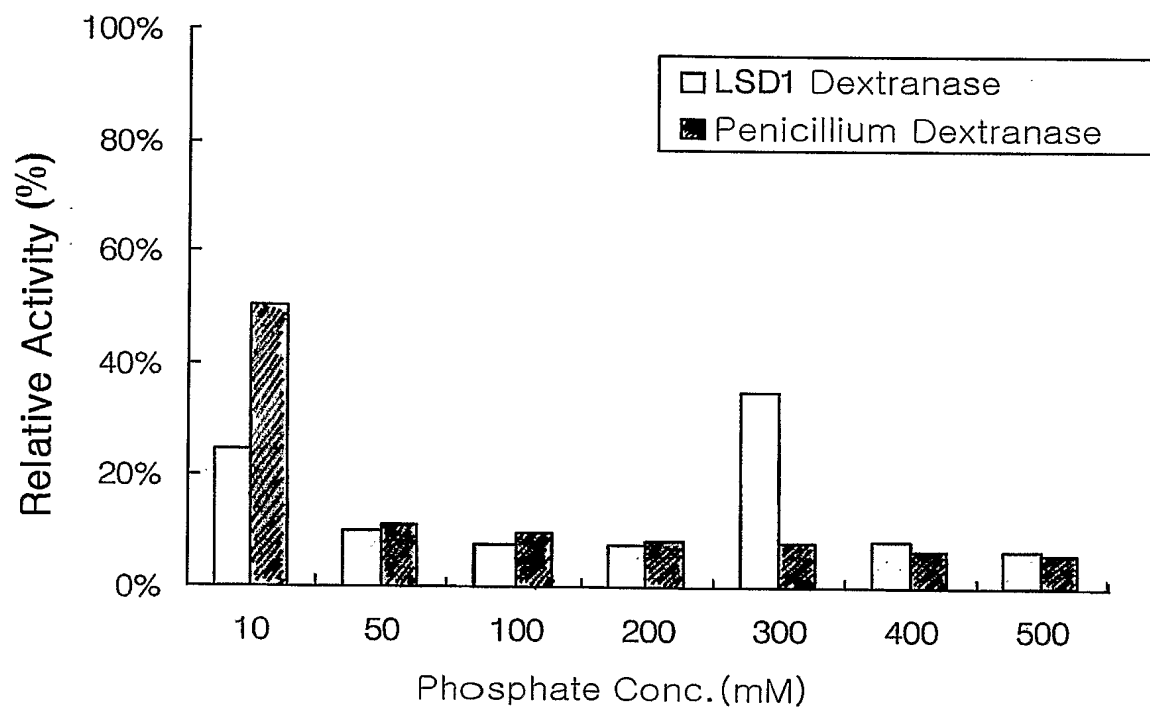


FIG. 5